ARCHIVES OF SURGERY

EDITORIAL BOARD

DEAN LEWIS, Baltimore
EVARTS A. GRAHAM, St. Louis
WALLACE I. TERRY, San Francisco
HUGH CABOT, Ann Arbor, Mich.
WILLIAM DARRACH, New York City
EDWARD STARR JUDD, Rochester, Minn.

VOLUME 19
1929

PUBLISHERS
AMERICAN MEDICAL ASSOCIATION
CHICAGO, ILL

19, 1

VOLUME 19 NUMBER 1

ARCHIVES OF SURGERY

EDITORIAL BOARD

DEAN LEWIS, Baltimore

EVARTS A. GRAHAM, St. Louis
WALLACE I. TERRY, San Francisco
HUGH CABOT, Ann Arbor, Mich.
WILLIAM DARRACH, New York
EDWARD STARR JUDD, Rochester, Minn.

JULY, 1929

PUBLISHED MONTHLY BY AMERICAN MEDICAL ASSOCIATION, 535 NORTH DEARBORN STREET, CHICAGO, ILLINOIS. ANNUAL SUBSCRIPTION, $8.00

SH.M.

Entered as Second-Class Matter, July 10, 1925, at the Postoffice at Chicago, Illinois, Under the Act of March 3, 1879. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of Oct. 3, 1917, authorized July 29, 1920.

CONTENTS OF PREVIOUS NUMBER

JUNE, 1929. NUMBER 6

Perfringens Antitoxin and Experimental Intestinal Obstruction. J. C. Owings, M.D., and C. A. McIntosh, M.D., Baltimore.

Cholecystography: A General Appraisal. Byrl R. Kirklin, M.D., Rochester, Minn.

The Relative Effects of Distention on Different Portions of the Intestine. C. A. Dragstedt, M.D., Ph.D.; V. F. Lang, M.S., and R. F. Millet, B.S., Chicago.

What Is Operative Mortality? Harold B. Wood, M.D., D.P.H., Harrisburg, Pa.

Acute Surgical Conditions Within the Abdomen Occurring During Infancy and Childhood: A Study of Three Hundred and Nineteen Cases. Edmund Horgan, M.D., and Joseph Horgan, M.D., Washington, D. C.

Ulcers Due to Varicose Veins and Lymphatic Blockage: A New Principle in Treatment. Hugh H. Trout, M.D., Roanoke, Va.

Experimental Surgery of the Esophagus. James H. Saint, M.D., and Frank C. Mann, M.D., Rochester, Minn.

Radiosensitive Intra-Oral Tumors: A Clinical Study. Max Cutler, M.D., New York.

Congenital Atresia of the Bile Ducts: Its Diagnosis and a Consideration of Surgical Intervention on the Basis of Its Pathology. Lester Rosenberg, M.D., and George E. Judd, M.D., Brooklyn.

Tumors of the Bone: A Comparative Study. William H. Goodwin, M.D., University, Va.

Skin Prints: Their Use in the Diagnosis of Lesions of the Breast. John O. Bower, M.D., and Jefferson H. Clark, M.D., Philadelphia.

Thirty-Eighth Report of Progress in Orthopedic Surgery. Philip D. Wilson, M.D.; Lloyd T. Brown, M.D.; M. N. Smith-Petersen, M.D.; Ralph Ghormley, M.D.; John Kuhns, M.D., and Edward Cave, M.D., Boston; Murray S. Danforth, M.D., Providence, R. I.; C. Herman Bucholz, M.D., Halle, Germany; George Perkins, London, England, and Arthur Van Dessel, M.D., Louvain, Belgium.

General Index.

COPYRIGHT, 1929, BY THE AMERICAN MEDICAL ASSOCIATION

Medical
direct

CONTENTS OF VOLUME 19

JULY, 1929. NUMBER 1

PAGE

Surgical Applications of Therapeutic Venous Obstruction. Barney Brooks, M.D., Nashville, Tenn..... 1

The Structure of Bone, with Particular Reference to Its Fibrillar Nature and the Relation of Function to Internal Architecture. Henry L. Jaffe, M.D., New York 24

Surgery of the Esophagus. James H. Saint, M.D. (Durham), M.R.C.S., L.R.C.P., Rochester, Minn..... 53

A New Abdominal Incision. J. Tate Mason, M.D., Seattle..... 129

Operative Relief from Pain in Lesions of the Mouth, Tongue and Throat. Walter E. Dandy, M.D., Baltimore..... 143

Bronchobiliary Fistula. M. G. Seelig, M.D., and J. J. Singer, M.D., St. Louis 149

Endometrioma of the Terminal Ileum, Appendix and Cecum. F. N. G. Starr, C.B.E., M.B., Toronto..... 152

Thirty-Eighth Report of Progress in Orthopedic Surgery. Philip D. Wilson, M.D.; Lloyd T. Brown, M.D.; M. N. Smith-Petersen, M.D.; Ralph Ghormley, M.D.; John Kuhns, M.D., and Edward Cave, M.D., Boston; Murray S. Danforth, M.D., Providence, R. I.; C. Herman Bucholz, M.D., Halle, Germany; George Perkins, London, England, and Arthur Van Dessel, M.D., Louvain, Belgium..... 154

AUGUST, 1929. NUMBER 2

Osteitis Fibrosa and Giant Cell Tumor. Charles F. Geschickter, M.D., and Murray M. Copeland, M.D., with Foreword by Joseph Colt Bloodgood, M.D., Baltimore 169

The Relation of the Adrenal Gland to the Toxemia of Intestinal Obstruction: An Experimental Study. R. A. Cutting, M.D., Ph.D., New Orleans.... 272

Acute Complete Obstruction of the Duodenum Following a Gastrojejunostomy: Cure by Degastro-Enterostomy. John E. Summers, M.D., Omaha..... 292

Pericardotomy for Pyopericardium. L. G. Bowers, M.D., Dayton, Ohio.... 301

Ganglioneuroma of Mediastinum Requiring Surgical Intervention for Relief of Obstructive Symptoms. T. F. Riggs, M.D., and L. P. Good, M.D., Pierre, S. D..... 309

Variations in the Extrahepatic Biliary Tract. Meredith G. Beaver, M.D., Rochester, Minn. 321

A Review of Urologic Surgery. Albert J. Scholl, M.D., Los Angeles; E. Starr Judd, M.D., Rochester, Minn.; Linwood D. Keyser, M.D., Roanoke, Va.; Gordon S. Foulds, M.D., Toronto, Canada; Jean Verbrugge, M.D., Antwerp, Belgium, and Adolph A. Kutzmann, M.D., Los Angeles 327

CONTENTS OF VOLUME 19

SEPTEMBER, 1929. NUMBER 3

PAGE

Traumatic Subclavian Arteriovenous Aneurysm: Final Report. Edgar Lorrington Gilcreest, M.D., San Francisco 375

The Celiac Plexus and Its Branches. F. Kiss, M.D., Budapest, Hungary, and Harry C. Ballon, M.D., St. Louis 399

The Branchial Apparatus: Its Embryologic Origin and the Pathologic Changes to Which It Gives Rise, with Presentation of a Familial Group of Fistulas. Olan R. Hyndman, M.D., and George Light, M.D., Iowa City 410

Lymphatic Drainage from the Peritoneal Cavity in the Dog. George M. Higgins, Ph.D., and A. Stephens Graham, M.D., Rochester, Minn 453

Old Nodular Goiter Surrounding Trachea, Posterior to the Carotid with the Isthmus Posterior to the Esophagus: Report of a Case with Sudden Death from Acute Abscess. Miles F. Porter, M.D., Fort Wayne, Ind. 466

The Effect of Intrabronchial Injections of Iodized Poppy Seed Oil 40 Per Cent: An Experimental Study on Dogs. Ralph Boerne Bettman, M.D.; John Kelly, M.D., and Nathan Crohn, M.D., Chicago 471

Intestinal Obstruction: Experimental Studies on Toxicity, Intra-Intestinal Pressure and Chloride Therapy. Forrester Raine, M.D., and Margaret C. Perry, M.A., Milwaukee 478

A Comparative Study of the Bactericidal Values of Twenty-One Commonly Used Antiseptics. Abbott William Allen, M.D., New York 512

Surgical Diseases of the Colon: Cooperative Management. Fred W. Rankin, M.D., and J. Arnold Bargen, M.D., Rochester, Minn 518

A Review of Abdominal Surgery. Gunther W. Nagel, M.D., San Francisco; E. Starr Judd, M.D., Rochester, Minn.; Bennett R. Parker, M.D., Chicago; Winfred H. Bueermann, M.D., Portland, Ore., and H. Peiper, M.D., Frankfurt Am Main, Germany 526

OCTOBER, 1929. NUMBER 4

Air Embolism from the Pulmonary Vein: A Clinical and Experimental Study. C. M. Van Allen, M.D., and L. S. Hrdina, Chicago, and J. Clark, M.D., Iowa City 567

Experimental Peptic Ulcer. James C. McCann, M.D., Rochester, Minn 600

Loose Cartilage from Intervertebral Disk Simulating Tumor of the Spinal Cord. Walter E. Dandy, M.D., Baltimore 660

Renal Counterbalance. James J. Joelson, M.D.; Claude S. Beck, M.D., and Alan R. Moritz, M.D., Cleveland 673

The Delbet Apparatus and the End-Results. Edward T. Crossan, M.D., Philadelphia 712

Trauma to Central Nervous System: Its Effects on Cardiac Output and Blood Pressure. An Experimental Study. Alfred Blalock, M.D., and Hubert B. Bradburn, M.D., Nashville, Tenn 725

Thrombo-Angiitis Obliterans: General Distribution of the Disease, Maurice E. Barron, M.D., and Harry Linenthal, M.D., Boston 735

OCTOBER—Continued

PAGE

Thirty-Ninth Report of Progress in Orthopedic Surgery. Philip D. Wilson, M.D.; Lloyd T. Brown, M.D.; M. N. Smith-Petersen, M.D.; Ralph Ghormley, M.D.; John Kuhns, M.D., and Edward Cave, M.D., Boston; Murray S. Danforth, M.D., Providence, R. I.; George Perkins, London, England, and Arthur Van Dessel, M.D., Louvain, Belgium 752

NOVEMBER, 1929. NUMBER 5

Correlations of Internal and External Pancreatic Secretion:

I. General Considerations and Review of the Literature. G. de Takats, M.D., Chicago 771

II. The Histologic Changes in the Isolated Tail of the Pancreas. G. de Takats, M.D., Chicago 775

III. The Effect of Ligation of the Tail of the Pancreas on Diastase in the Blood. G. de Takats, M.D., and I. T. Nathanson, B.S., Chicago 788

Experimental Sarcoma of Bone. Charles L. Connor, M.D., San Francisco .. 794

Pulmonary Atelectasis and Respiratory Failure. Israel Rappaport, M.D., New York 808

Cavernous Hemangioma of the Scrotum: Report of a Case. Nathan Winslow, M.D., Baltimore 829

Surgical Wounds in Human Beings: A Histologic Study of Healing with Practical Applications; I. Epithelial Healing. Shattuck W. Hartwell, M.D., Rochester, Minn 835

Primary Carcinoma of the Fallopian Tube: A Series of Fourteen Cases. Lawrence R. Wharton, M.D., Baltimore, and F. H. Krock, M.D., Fort Smith, Ark. 848

Leukoplakia of the Renal Pelvis. Adolph A. Kutzmann, M.D., Los Angeles 871

Oxygen Content of Blood in Patients with Varicose Veins. Alfred Blalock, M.D., Nashville, Tenn 898

Carcinoma of the Colon: Intraperitoneal Vaccination by Mixed Vaccine of Colon Bacilli and Streptococci. Fred W. Rankin, M.D., and J. Arnold Bargen, M.D., Rochester, Minn 906

Acute Obstruction of the Small Intestine Due to a Gallstone: Recovery Following Operation. Golder L. McWhorter, M.D., Ph.D., Chicago. 915

A Review of Urologic Surgery (to be Continued). Albert J. Scholl, M.D., Los Angeles; E. Starr Judd, M.D., Rochester, Minn.; Linwood D. Keyser, M.D., Roanoke, Va.; Gordon S. Foulds, M.D., Toronto, Canada; Jean Verbrugge, M.D., Antwerp, Belgium, and Adolph A. Kutzmann, M.D., Los Angeles 922

DECEMBER, 1929. PART I. NUMBER 6

Value of Blood Amylase Estimations in the Diagnosis of Pancreatic Disease: A Clinical Study. Robert Elman, M.D.; Norman Arneson, M.D., and Evarts A. Graham, M.D., St. Louis 943

Fractures of the Transverse Processes of the Lumbar Vertebrae: A Report of Thirty-Three Cases. Paul A. Quaintance, M.D., Los Angeles 968

Gross and Microscopic Structure of the Thyroid Gland in Man. William Francis Rienhoff, Jr., M.D., Baltimore 986

The Gallbladder: Its Functions and Some of Their Disturbances in the Light of Recent Investigations. Béla Halpert, M.D., Chicago 1037

DECEMBER, PART I—Continued

PAGE

Fibroma of the Vulva Containing an Epithelial Inclusion Cyst. Leo Brady, M.D., Baltimore 1061

Experimental Ileus: I. High Obstruction with the Biliary, Pancreatic and Duodenal Secretions Short-Circuited Below the Obstructed Point. Hilger Perry Jenkins, M.D., Chicago 1072

Localization of Bacteria in Tissues of Lowered Resistance. W. Warren Sager, M.D., and Allen C. Nickel, M.D., Rochester, Minn. 1086

A Review of Urologic Surgery (Concluded). Albert J. Scholl, M.D., Los Angeles; E. Starr Judd, M.D., Rochester, Minn.; Linwood D. Keyser, M.D., Roanoke, Va.; Gordon S. Foulds, M.D., Toronto, Canada; Jean Verbrugge, M.D., Antwerp, Belgium, and Adolph A. Kutzmann, M.D., Los Angeles 1090

DECEMBER, 1929. PART II. NUMBER 6

Report on the Activities of the Chest Tumor Registry 1121

Pulmonary Tuberculosis: Pathology and Treatment. John L. Yates, M.D., Milwaukee 1122

Direct Drainage of Tuberculous Pulmonary Cavities. Howard Lilienthal, M.D., New York 1161

Phrenicectomy in Three Hundred Cases of Pulmonary Tuberculosis. E. S. Welles, M.D., Saranac Lake, N. Y. 1169

The Electrosurgical Method of Closed Intrapleural Pneumolysis in Artificial Pneumothorax. Ralph C. Matson, M.D., Portland, Ore. 1175

Therapeutic Pulmonary Collapse. Dean B. Cole, M.D., and Frank S. Johns, M.D., Richmond, Va. 1193

The Effects of Closed Pneumothorax and Phrenicotomy on the Cardio-respiratory Function. William DeW. Andrus, M.D., and J. D. Wilson, M.D., Cincinnati 1205

Functional Aspects of Bronchial Muscle and Elastic Tissue. Charles C. Macklin, M.D., Ph.D., F.R.S.C., London, Canada 1212

Cin-Ex Camera Studies of the Tracheobronchial Tree. W. A. Hudson, M.D., and Hans A. Jarre, M.D., Detroit 1236

The Production of Intrapulmonary Suppuration by Secondary Infection of a Sterile Embolic Area: An Experimental Study. Emile Holman, M.D., and Mary E. Mathes, M.D., San Francisco 1246

Bronchogenic Contamination in Embolic Abscess of the Lungs. C. M. Van Allen, M.D., New Haven, Conn., and W. E. Adams, M.D., and L. S. Hrdina, Chicago 1262

Embolism in Bronchogenic Infection of the Lung. C. M. Van Allen, M.D., New Haven, Conn., and W. E. Adams, M.D., and L. S. Hrdina, Chicago. 1279

Pulmonary Abscess: An Analysis of One Hundred and Seventy-Two Cases. John B. Flick, M.D.; Louis H. Clerf, M.D.; Elmer H. Funk, M.D., and John T. Farrell, Jr., M.D., Philadelphia 1292

A Case of Abscess of the Lung, with Filling of a Cavity and Closure of a Bronchial Fistula by Pedicle Muscle Graft. Francis A. C. Scrimger, M.D., Montreal, Canada 1313

DECEMBER, PART II—Continued PAGE

Postoperative Pulmonary Hypoventilation. George P. Muller, M.D.; Richard H. Overholt, M.D., and Eugene P. Pendergrass, M.D., Philadelphia.....1322

The Circulation in the Compressed, Atelectatic and Pneumonic Lung. (Pneumothorax-Apeneumatosis-Pneumonia). Pol N. Coryllos, M.D., and George L. Birnbaum, M.D., New York.....1346

The Surgical Treatment of Bronchial Asthma. Edgar W. Phillips, M.D., and W. J. Merle Scott, M.D., Rochester, N. Y.....1425

Decortication of the Heart (Delorme) for Adhesive Pericarditis. Edward D. Churchill, M.D., Boston.....1457

Sensibility of the Exposed Human Heart and Pericardium. John Alexander, M.D.; A. Garrard Macleod, M.D., and Paul S. Barker, M.D., Ann Arbor, Mich. 1470

Operations on the Innominate Artery: Report of a Successful Ligation. James Greenough, M.D., Cooperstown, N. Y.....1484

Operations and Demonstrations of Cases in Barnes Hospital:

1. Thoracoplasty and Phrenicectomy. Evarts A. Graham, M.D., and Duff S. Allen, M.D., St. Louis.....1545
2. Clinic Demonstrations. Jacob J. Singer, M.D., and Evarts A. Graham, M.D., St. Louis.....1552
3. Bronchography. Jacob J. Singer, M.D., St. Louis.....1571

Demonstrations of Experimental Work in the Washington University School of Medicine:

1. Caliber Changes in the Bronchi in Normal Respiration. Peter Heinbecker, M.D., St. Louis.....1574
2. Changes in the Shape and Size of the Tracheobronchial Tree Following Stimulation of the Vagosympathetic Nerve. Byron F. Francis, M.D., St. Louis.....1577
3. Emphysema Simulating Cardiac Decompensation. W. B. Kountz, M.D., and H. L. Alexander, M.D., St. Louis.....1584
4. Experimental Abscess of the Lung Following Ligation of the Pulmonary Artery and Incision and Suture of the Pulmonary Parenchyma. I. Y. Olch, M.D., and Harry C. Ballon, M.D., St. Louis....1586
5. The Origin of Scar Tissue in Healing of the Lung. I. Y. Olch, M.D., and Harry C. Ballon, M.D., St. Louis.....1595
6. The Bacterial Flora of Treated and of Untreated Abscesses of the Lung. Philip L. Varney, M.S., St. Louis.....1602
7. Early Carcinoma of the Lung. S. H. Gray, M.D., and J. Cordonnier, M.D., St. Louis.....1618
8. Consequences of Variations in Mediastinal Pressure; Mediastinal and Subcutaneous Emphysema. Harry C. Ballon, M.D., and Byron F. Francis, M.D., St. Louis.....1627
9. Comparison of Iodized Oil and Brominized Oil. Jacob J. Singer, M.D., and Byron F. Francis, M.D., St. Louis.....1660
10. Effects of Pressure on the Heart, with Reference to the Advisability of Decompression of Greatly Enlarged Hearts: Experimental Study. Duff S. Allen, M.D., and Evarts A. Graham, M.D., St. Louis.....1663
11. Cytology of Serous Effusions, with Special Reference to Tumor Cells. Alfred Goldman, M.D., St. Louis.....1672

DECEMBER, PART II—Continued

PAGE

Surgical Treatment of Intrathoracic Tumors. Stuart W. Harrington, M.D., Rochester, Minn. 1679

The Treatment of Some Unusual and Difficult Cases of Empyema. Charles D. Lockwood, M.D., Pasadena, Calif. 1726

Empyema: Treatment by Tidal Irrigation and Suction. Deryl Hart, M.D., Baltimore 1732

Proceedings 1767

Changes in Constitution and By-Laws 1769

List of Members of the American Association for Thoracic Surgery 1770

In Memoriam:
Howard A. Lothrop 1773

Necrology 1774